

# Cloud Logging guide:

1.- Go to the Google Cloud navigation menu and select **Logging > Logs Explorer**, and you will see a screen like this:

The screenshot shows the Google Cloud Platform interface for the 'Slik Photos Prod' project. The 'Logs Explorer' is active, displaying a histogram of log activity. The histogram shows a peak in activity around 4:52 PM on September 23. Below the histogram, a table of query results is visible, showing log entries with columns for severity, timestamp, CDT, and summary. A red arrow points to the 'CDT' column header in the table.

2.- Change the timestamp to PDT, and click on “Apply”.

The screenshot shows the Google Cloud Platform interface for the 'Slik Photos Prod' project. The 'Logs Explorer' is active, displaying a histogram of log activity. A 'Time zone' dialog box is open, showing a list of time zones. The 'PDT' time zone is selected. A red arrow points to the 'Apply' button in the dialog box.

3.- Choose the resource you want to inspect, in this case we want to inspect the “Cloud Functions”, then click on “Add”:

The screenshot shows the Google Cloud Logs Explorer interface. On the left, there's a sidebar with navigation options: Operations Logging, Logs Explorer (selected), Logs Dashboard, Logs-based Metrics, Logs Router, and Logs Storage. The main area is titled 'Logs Explorer' and includes a 'REFINE SCOPE' button. A message at the top states: 'You are missing one or more permissions required to use the query library. [Learn more](#).' Below this, there's a 'Query' section with 'Saved (0)' and 'Suggested (0)' tabs. A 'Resource +' button is visible. The 'Select resource' dialog is open, showing a list of resources on the left and a search for 'function\_name' on the right. 'Cloud Function' is selected in the left list. In the right list, 'delete\_asset' is highlighted. A red circle and arrow point to the 'Add' button at the bottom right of the dialog. The background shows a log stream with a timeline graph and a table of log entries.

Resource	Log name	Severity	Correlate by	Timestamp	Method	Status	Size	Latency	Source	Destination
Cloud HTTP Load Balancer				2021-09-23 16:24:30.130 PDT	GET	200	2 B	0 ms	GoogleHC 1.0	/readiness_check
Cloud HTTP Load Balancer				2021-09-23 16:24:31.785 PDT	GET	200	2 B	0 ms	GoogleHC 1.0	/readiness_check
BigQuery Dataset				2021-09-23 16:24:34.767 PDT	GET	200	964 B	0 ms	Go-http-clie-	/nginx_metrics
BigQuery				2021-09-23 16:24:34.933 PDT	GET	200	2 B	0 ms	GoogleHC 1.0	/readiness_check
BigQuery Project				2021-09-23 16:24:35.131 PDT	GET	200	2 B	0 ms	GoogleHC 1.0	/readiness_check

4.- Click on “Run Query” to get the cloud functions logs.

Logs Explorer **OPTIONS** **REFINE SCOPE** Project **SHARE LINK** **LAST 1 HOUR** **LEARN**

**You are missing one or more permissions required to use the query library. [Learn more](#).** **DISMISS**

**Query** Saved (0) Suggested (0) **Stream logs** **Run query**

Resource Log name Severity Correlate by + **Tip: Put "search terms" in quotes to search all log fields**

1 resource.type="cloud\_function"

Log fields Histogram **Jump to now** Actions Configure

**Log fields** Search fields and values

**RESOURCE TYPE**

- GAE Application 2,713
- Cloud Function 910
- Audited Resource 433
- BigQuery DTS Config 44
- Cloud HTTP Load Balancer 5
- BigQuery Dataset 4
- BigQuery 3
- BigQuery Project 2
- SEVERITY

**Histogram**

Sep 23, 3:24 PM 4:00 PM Sep 23, 4:25 PM

**Query results**

SEVERITY TIMESTAMP PDT SUMMARY

This query has been updated. To view matching entries, select **Run query**

>	i	2021-09-23 16:24:29.931 PDT	GET	200	2 B	0 ms	GoogleHC 1.0	/readiness_check
>	i	2021-09-23 16:24:30.130 PDT	GET	200	2 B	0 ms	GoogleHC 1.0	/readiness_check
>	*	2021-09-23 16:24:31.785 PDT	GET	200	964 B	0 ms	Go-http-clie...	/nginx_metrics
>	i	2021-09-23 16:24:34.767 PDT	GET	200	2 B	0 ms	GoogleHC 1.0	/readiness_check
>	i	2021-09-23 16:24:34.933 PDT	GET	200	2 B	0 ms	GoogleHC 1.0	/readiness_check

Show debug panel

**5.- Then select the time range to filter the logs by a specific time desired, in this example we're going to inspect the logs generated during the spike of reads that occurred on September 22th at 1:30-2:30 AM PDT. And click on "Apply".**

Logs Explorer **OPTIONS** **REFINE SCOPE** **Project** **SHARE LINK** **LAST 1 HOUR** **LEARN**

**You are missing one or more permissions required to use the query library. [Learn more](#)** **DISMISS**

**Query** Saved (0) Suggested (0)

Resource **Log name** Severity **Correlate by**

1 resource.type="cloud\_function"

**Log fields** **Histogram**

Log fields: Search fields and values

**RESOURCE TYPE**

- GAE Application 2,713
- Cloud Function 910
- Audited Resource 433
- BigQuery DTS Config 44
- Cloud HTTP Load Balancer 5
- BigQuery Dataset 4
- BigQuery 3
- BigQuery Project 2

**SEVERITY**

**Histogram**

400  
200  
0

Sep 23, 3:24 PM 4:00 PM Sep 23, 4:25 PM

**Query results**

SEVERITY TIMESTAMP PDT SUMMARY

This query has been updated. To view matching entries, select **Run query**

SEVERITY	TIMESTAMP	PDT	SUMMARY
i	2021-09-23 16:24:29.931 PDT	GET 200	2 B 0 ms GoogleHC 1.0 /readiness_check
>	2021-09-23 16:24:30.130 PDT	GET 200	2 B 0 ms GoogleHC 1.0 /readiness_check
>	2021-09-23 16:24:31.785 PDT	GET 200	964 B 0 ms Go-http-clie_ /nginx_metrics
>	2021-09-23 16:24:34.767 PDT	GET 200	2 B 0 ms GoogleHC 1.0 /readiness_check
>	2021-09-23 16:24:34.933 PDT	GET 200	2 B 0 ms GoogleHC 1.0 /readiness_check

**Select time range**

30 seconds  
15 minutes  
1 hour  
7 days  
Enter custom range  
Jump to time

START TIME: 9 / 22 / 2021 1 : 30 : 00 . 000 AM PDT  
END TIME: 9 / 22 / 2021 2 : 30 : 00 . 000 AM PDT

Cancel Apply

Show debug panel

## 6.- Select any log to see more details (in JSON format)

Logs Explorer **OPTIONS** **REFINE SCOPE** **Project** **SHARE LINK** **1:30:00 AM - 2:30:00 AM** **LEARN**

**You are missing one or more permissions required to use the query library. [Learn more](#)** **DISMISS**

**Query** Saved (0) Suggested (0) **Stream logs** **Run query** **Edit query**

resource.type="cloud\_function"

**Log fields** **Histogram**

Log fields: Search fields and values

**RESOURCE TYPE**

- Cloud Function **Clear x**

**SEVERITY**

- Info 13,314
- Debug 7,602
- Default 3,744

**LOG NAME**

- cloudfunctions.googleapis.com/cloud-fu... 24,660
- PROJECT ID
- slikphotos 24,660
- FUNCTION NAME
- ext-firestore-bigquery-export-albums-fsex... 5,263
- ext-firestore-bigquery-export-fsexportbigq... 5,244
- create\_asset 5,068

**Histogram**

6K  
4K  
2K  
0

1:30 AM 2:00 AM Sep 22, 1:30 AM Sep 22, 2:31 AM

**Query results**

SEVERITY TIMESTAMP PDT SUMMARY

0 2021-09-22 02:29:22.849 PDT ext-firestore-bigquery-export-invites-fsexportbigquery nv56mveq07bb Function execution took 1443 ms, finished with status: 'ok'

**JSON Log Entry:**

```
{
  insertId: "000000-12c4b87d-6850-4895-be23-2994eb259e4a"
  labels: {1}
  logName: "projects/slikphotos/logs/cloudfunctions.googleapis.com%2Fcld-cloud-functions"
  receiveTimestamp: "2021-09-22T09:29:31.643370430Z"
  resource: {2}
  severity: "DEBUG"
  textPayload: "Function execution took 1443 ms, finished with status: 'ok'"
  timestamp: "2021-09-22T09:29:22.849177306Z"
  trace: "projects/slikphotos/traces/70e385e0ec1dc2fd1f4700272d3c4fc1"
```

Hide log summary Expand nested fields Copy to clipboard Copy link

Show debug panel

This way you can see the cloud functions logs generated during the spike of reads.

You can repeat the above steps for the “Audited Resource > Firestore” resource and select the time range when you want to inspect the firestore logs.